

George Z Voyiadjis

List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

412
papers

9,258
citations

52
h-index

77
g-index

439
ext. papers

10,161
ext. citations

3.6
avg, IF

6.86
L-index

#	Paper	IF	Citations
412	Evaluating long-term benefits of geosynthetics in flexible pavements built over weak subgrades by finite element and Mechanistic-Empirical analyses. <i>Geotextiles and Geomembranes</i> , 2022 ,	5.2	3
411	A new anisotropic elasto-plastic-damage model for quasi-brittle materials using strain energy equivalence. <i>Mechanics of Materials</i> , 2022 , 165, 104163	3.3	3
410	The True Nature of the Decomposition of the Damage Variable 2022 , 3-22		
409	Partial Damage Mechanics: Introduction 2022 , 83-99		
408	Mechanics of Self-Regenerating Materials 2022 , 101-118		
407	Damageability and Integrity of Materials: New Concepts of the Damage and Healing Fields 2022 , 23-59		
406	Damageability and Integrity of Materials: Unrecoverable Damage and Generalized Healing Model 2022 , 61-81		
405	Frictional Contact Between a Blunt Tool and Quasi-brittle Rock with Damage: Numerical Modeling 2022 , 853-891		
404	Damage and Nonlinear Super Healing with Application to the Design of New Strengthening Theory 2022 , 119-154		
403	Damageability and Integrity of Materials: New Concepts of the Damage and Healing Fields 2021 , 1-38		
402	Damageability and Integrity of Materials: Unrecoverable Damage and Generalized Healing Model 2021 , 1-21		
401	Introduction to Partial Damage Mechanics 2021 , 1-17		
400	Scaling laws for nanoporous metals under uniaxial loading. <i>Journal of Materials Research</i> , 2021 , 36, 2729-2741		4
399	Crystal Plasticity Simulation of Magnesium and Its Alloys: A Review of Recent Advances. <i>Crystals</i> , 2021 , 11, 435	2.3	11
398	A Moving Vehicle Height Monitoring Sensor System for Overheight Impact Avoidance. <i>Infrastructures</i> , 2021 , 6, 91	2.6	0
397	Characterization of the strain rate effect under uniaxial loading for nanoporous gold. <i>Computational Materials Science</i> , 2021 , 194, 110425	3.2	5
396	Evaluating the effect of pile spacing and configuration on the lateral resistance of pile groups. <i>Marine Georesources and Geotechnolgy</i> , 2021 , 39, 150-162	2.2	6

395	Effect of element wall thickness on the homogeneity and isotropy of hardness in SLM IN718 using nanoindentation. <i>Mechanics Research Communications</i> , 2021 , 114, 103568	2.2	0
394	Ligament size dependency of strain hardening and ductility in nanoporous gold. <i>Computational Materials Science</i> , 2021 , 186, 109920	3.2	9
393	Grain size dependence of polycrystalline plasticity modeling in cylindrical indentation. <i>Computational Mechanics</i> , 2021 , 68, 499-543	4	2
392	Numerical parametric study of geosynthetic reinforced soil integrated bridge system (GRS-IBS). <i>Geotextiles and Geomembranes</i> , 2021 , 49, 289-303	5.2	7
391	Rate Effect in Frictional Contact on Porous Rocks. <i>Rock Mechanics and Rock Engineering</i> , 2021 , 54, 1411-1430	14.7	1
390	The True Nature of the Decomposition of the Damage Variable 2021 , 1-20		
389	Effect of plastic deformation on the nanomechanical properties of glassy polymers: An experimental study. <i>Mechanics of Materials</i> , 2021 , 159, 103900	3.3	1
388	Constitutive modeling and numerical simulations for dynamic strain aging in MMFX steel at elevated temperatures. <i>International Journal of Mechanical Sciences</i> , 2021 , 210, 106743	5.5	2
387	Temperature effect on nanoporous gold under uniaxial tension and compression. <i>Computational Materials Science</i> , 2021 , 200, 110766	3.2	2
386	A nonlocal damage model for concrete with three length scales. <i>Computational Mechanics</i> , 2021 , 68, 461-486	4	5
385	Modeling and Design of SHPB to Characterize Brittle Materials Under Compression for High Strain Rates. <i>Materials</i> , 2020 , 13,	3.5	6
384	On the slip and twinning mechanisms on first order pyramidal plane of magnesium: Molecular dynamics simulations and first principal studies. <i>Materials and Design</i> , 2020 , 191, 108648	8.1	12
383	Constitutive modeling of dynamic strain aging for HCP metals. <i>European Journal of Mechanics, A/Solids</i> , 2020 , 83, 104034	3.7	7
382	Development of Combined Pile-CPT Methods for Estimating the Ultimate Axial Capacity of PPC Piles Driven in Different Soil Categories in Louisiana. <i>Transportation Research Record</i> , 2020 , 2674, 313-327	14.7	
381	Damage and healing mechanics in plane stress, plane strain, and isotropic elasticity. <i>International Journal of Damage Mechanics</i> , 2020 , 29, 1246-1270	3	6
380	Strain gradient finite element model for finite deformation theory: size effects and shear bands. <i>Computational Mechanics</i> , 2020 , 65, 1219-1246	4	3
379	Order in polycrystalline plasticity deformation fields: Short-range intermittency and long-range persistency. <i>International Journal of Plasticity</i> , 2020 , 128, 102674	7.6	6
378	Review of experimental observations on the gradient-enhanced continuum plasticity 2020 , 9-42		

- 377 Review of theoretical developments on the gradient-enhanced continuum plasticity **2020**, 43-93
- 376 Lower-order strain gradient plasticity theory with variable length scales **2020**, 123-155
- 375 Gradient-enhanced continuum plasticity for small deformations **2020**, 157-203
- 374 Review of numerical approaches using the gradient-enhanced continuum plasticity **2020**, 95-122
- 373 Gradient-enhanced continuum plasticity for finite deformations **2020**, 205-253
- 372 Temperature- and rate-dependent indentation size effects and material length scales **2020**, 311-361
- 371 Open issues in strain gradient continuum plasticity and other approaches to address size effects **2020**, 363-374
- 370 Damage and Nonlinear Super Healing with Application to the Design of New Strengthening Theory **2020**, 1-37
- 369 Mechanics of Self-Regenerating Materials **2020**, 1-19
- 368 Frictional Contact Between a Blunt Tool and Quasi-Brittle Rock with Damage: Numerical Modeling **2020**, 1-40
- 367 Damaged plasticity model for concrete using scalar damage variables with a novel stress decomposition. *International Journal of Solids and Structures*, **2020**, 191-192, 56-75 3.1 11
- 366 Performance of MMFX Steel Rebar at Elevated Temperatures. *Journal of Engineering Mechanics - ASCE*, **2020**, 146, 04020126 2.4 2
- 365 A physically based constitutive model for dynamic strain aging in Inconel 718 alloy at a wide range of temperatures and strain rates. *Acta Mechanica*, **2020**, 231, 19-34 2.1 16
- 364 Gradient-enhanced continuum plasticity-damage theory for finite deformations under high velocity impact loading **2020**, 255-310
- 363 Future evolution: Multiscale modeling framework to develop a physically based nonlocal plasticity model for crystalline materials **2019**, 357-384
- 362 Fracture investigation of the shape memory alloy using GTN model. *Engineering Fracture Mechanics*, **2019**, 216, 106519 4.2 8
- 361 Numerical parametric study to evaluate the performance of a Geosynthetic Reinforced Soil Integrated Bridge System (GRS-IBS) under service loading. *Transportation Geotechnics*, **2019**, 20, 100238 4 11
- 360 Strain gradient continuum plasticity theories: Theoretical, numerical and experimental investigations. *International Journal of Plasticity*, **2019**, 121, 21-75 7.6 56

359	Numerical Modeling of Frictional Contact Between a Blunt Tool and Quasi-Brittle Rock. <i>Rock Mechanics and Rock Engineering</i> , 2019 , 52, 3771-3790	5-7	8
358	Modeling High-Speed Impact Failure of Metallic Materials: Nonlocal Approaches 2019 , 939-969		
357	Molecular dynamics 2019 , 275-355		1
356	Evaluating the Performance of Geosynthetic Reinforced Soil-Integrated Bridge System (GRS-IBS) under Working Stress Condition. <i>MATEC Web of Conferences</i> , 2019 , 271, 02001	0-3	
355	Fracture analysis of shape memory alloys in martensite and austenite phase based on the voids behavior. <i>Mechanics of Materials</i> , 2019 , 137, 103119	3-3	7
354	Introduction: Size effects in materials 2019 , 1-79		2
353	Nonlocal continuum plasticity 2019 , 81-190		1
352	The effect of shape memory alloys on the ductility of exterior reinforced concrete beam-column joints using the damage plasticity model. <i>Engineering Structures</i> , 2019 , 200, 109676	4-7	12
351	Continuous Stiffness Measurement Nanoindentation Experiments on Polymeric Glasses: Strain Rate Alteration 2019 , 315-332		
350	Higher Order Thermo-mechanical Gradient Plasticity Model: Nonproportional Loading with Energetic and Dissipative Components 2019 , 547-594		
349	Finite Element Analysis of Thermodynamically Consistent Strain Gradient Plasticity Theory and Applications 2019 , 781-838		
348	Nanostructural Response to Plastic Deformation in Glassy Polymers 2019 , 377-399		
347	Modeling Temperature-Driven Ductile-to-Brittle Transition Fracture in Ferritic Steels 2019 , 1099-1122		
346	Shear Transformation Zones in Amorphous Polymers: Geometrical and Micromechanical Properties 2019 , 333-359		
345	Size Effects and Material Length Scales in Nanoindentation for Metals 2019 , 3-38		1
344	Size Effects During Nanoindentation: Molecular Dynamics Simulation 2019 , 39-76		1
343	Review of Size Effects during Micropillar Compression Test: Experiments and Atomistic Simulations. <i>Crystals</i> , 2019 , 9, 591	2-3	8
342	Investigation of the super healing theory in continuum damage and healing mechanics. <i>International Journal of Damage Mechanics</i> , 2019 , 28, 896-917	3	13

341	Constitutive model for metals with dynamic strain aging. <i>Mechanics of Materials</i> , 2019 , 129, 352-360	3.3	24
340	A fully nonlinear viscohyperelastic model for the brain tissue applicable to dynamic rates. <i>Journal of Biomechanics</i> , 2019 , 84, 211-217	2.9	5
339	Advances in the mechanics of undamageable materials: General three-dimensional formulation. <i>International Journal of Damage Mechanics</i> , 2019 , 28, 1021-1037	3	4
338	Brain modelling in the framework of anisotropic hyperelasticity with time fractional damage evolution governed by the Caputo-Almeida fractional derivative. <i>Journal of the Mechanical Behavior of Biomedical Materials</i> , 2019 , 89, 209-216	4.1	31
337	Fundamental aspects for characterization in continuum damage mechanics. <i>International Journal of Damage Mechanics</i> , 2019 , 28, 200-218	3	10
336	Assessing texture development and mechanical response in microscale reverse extrusion of copper. <i>Journal of Materials Research</i> , 2018 , 33, 978-988	2.5	11
335	3D Finite element analysis of the geosynthetic reinforced soil-integrated bridge system (GRS-IBS) under different loading conditions. <i>Transportation Geotechnics</i> , 2018 , 15, 70-83	4	21
334	Indentation size effect in amorphous polymers based on shear transformation mediated plasticity. <i>Polymer</i> , 2018 , 137, 72-81	3.9	20
333	Hyperelastic modeling of the human brain tissue: Effects of no-slip boundary condition and compressibility on the uniaxial deformation. <i>Journal of the Mechanical Behavior of Biomedical Materials</i> , 2018 , 83, 63-78	4.1	25
332	Time-dependent modeling of subsidence due to drainage in bounding shales: Application to a depleted gas field in Louisiana. <i>Journal of Petroleum Science and Engineering</i> , 2018 , 166, 175-187	4.4	8
331	The effects of temperature and strain rate in fcc and bcc metals during extreme deformation rates. <i>Acta Materialia</i> , 2018 , 151, 1-10	8.4	30
330	An atomic displacive model for $101\bar{2}1\bar{0}11$ twinning in hexagonal close packed metals with the emphasis on the role of partial stacking faults in formation of $\{101\bar{2}\}$ twins. <i>Acta Materialia</i> , 2018 , 150, 381-393	8.4	12
329	Comparison of static lateral behavior of three pile group configurations using three-dimensional finite element modeling. <i>Canadian Geotechnical Journal</i> , 2018 , 55, 107-118	3.2	9
328	Decomposition of healing tensor: In continuum damage and healing mechanics. <i>International Journal of Damage Mechanics</i> , 2018 , 27, 1020-1057	3	10
327	A combined experimental, modeling, and computational approach to interpret the viscoelastic response of the white matter brain tissue during indentation. <i>Journal of the Mechanical Behavior of Biomedical Materials</i> , 2018 , 77, 24-33	4.1	20
326	Modeling High-Speed Impact Failure of Metallic Materials: Nonlocal Approaches 2018 , 1-31		
325	Modeling Temperature-Driven Ductile-to-Brittle Transition Fracture in Ferritic Steels 2018 , 1-24		
324	Finite Element Analysis of Thermodynamically Consistent Strain Gradient Plasticity Theory and Applications 2018 , 1-58		2

323	Small scale volume formulation based on coupled thermo-mechanical gradient enhanced plasticity theory. <i>International Journal of Solids and Structures</i> , 2018 , 134, 195-215	3.1	19
322	Material Behavior Description for a Large Range of Strain Rates from Low to High Temperatures: Application to High Strength Steel. <i>Metals</i> , 2018 , 8, 795	2.3	11
321	Numerical Investigation of the Performance of a Geosynthetic Reinforced Soil-Integrated Bridge System (GRS-IBS) under Working Stress Conditions 2018 ,		3
320	Nonlinear Superhealing and Contribution to the Design of a New Strengthening Theory. <i>Journal of Engineering Mechanics - ASCE</i> , 2018 , 144, 04018055	2.4	7
319	Modeling of damage-healing and nonlinear self-healing concrete behavior: Application to coupled and uncoupled self-healing mechanisms. <i>Theoretical and Applied Fracture Mechanics</i> , 2018 , 96, 216-230	3.7	30
318	Mechanics of damage, healing, damageability, and integrity of materials: A conceptual framework. <i>International Journal of Damage Mechanics</i> , 2017 , 26, 50-103	3	38
317	Fatigue and fretting fatigue life prediction of double-lap bolted joints using continuum damage mechanics-based approach. <i>International Journal of Damage Mechanics</i> , 2017 , 26, 162-188	3	18
316	Decomposition of Elastic Stiffness Degradation in Continuum Damage Mechanics. <i>Journal of Engineering Materials and Technology, Transactions of the ASME</i> , 2017 , 139,	1.8	7
315	Higher-Order Thermomechanical Gradient Plasticity Model With Energetic and Dissipative Components. <i>Journal of Engineering Materials and Technology, Transactions of the ASME</i> , 2017 , 139,	1.8	13
314	On the decomposition of the damage variable in continuum damage mechanics. <i>Acta Mechanica</i> , 2017 , 228, 2499-2517	2.1	4
313	An Indirect Indentation Method for Evaluating the Linear Viscoelastic Properties of the Brain Tissue. <i>Journal of Biomechanical Engineering</i> , 2017 , 139,	2.1	21
312	Flow Stress and Damage Behavior of C45 Steel Over a Range of Temperatures and Loading Rates. <i>Journal of Engineering Materials and Technology, Transactions of the ASME</i> , 2017 , 139,	1.8	11
311	Nanoindentation of high performance semicrystalline polymers: A case study on PEEK. <i>Polymer Testing</i> , 2017 , 61, 57-64	4.5	31
310	Effect of passivation on higher order gradient plasticity models for non-proportional loading: energetic and dissipative gradient components. <i>Philosophical Magazine</i> , 2017 , 97, 318-345	1.6	30
309	Effect of annealing temperature on interrelation between the microstructural evolution and plastic deformation in polymers. <i>Journal of Polymer Science, Part B: Polymer Physics</i> , 2017 , 55, 1286-1297	2.6	17
308	Microstructural investigation of the hardening mechanism in fcc crystals during high rate deformations. <i>Computational Materials Science</i> , 2017 , 138, 10-15	3.2	15
307	Fatigue Damage Analysis of Double-Lap Bolted Joints Considering the Effects of Hole Cold Expansion and Bolt Clamping Force. <i>Journal of Engineering Materials and Technology, Transactions of the ASME</i> , 2017 , 139,	1.8	3
306	Size and strain rate effects in metallic samples of confined volumes: Dislocation length distribution. <i>Scripta Materialia</i> , 2017 , 130, 182-186	5.6	19

305	Numerical evaluation of the performance of a Geosynthetic Reinforced Soil-Integrated Bridge System (GRS-IBS) under different loading conditions. <i>Geotextiles and Geomembranes</i> , 2017 , 45, 558-569	5.2	31
304	Dynamic fracture mechanics in rocks with application to drilling and perforation 2017 , 233-256		
303	A theory of damage and self-regenerating materials. <i>Acta Mechanica</i> , 2017 , 228, 4249-4268	2.1	2
302	A hyperelastic fractional damage material model with memory. <i>International Journal of Solids and Structures</i> , 2017 , 124, 151-160	3.1	34
301	Introducing damage mechanics templates for the systematic and consistent formulation of holistic material damage models. <i>Acta Mechanica</i> , 2017 , 228, 951-990	2.1	17
300	Review of Nanoindentation Size Effect: Experiments and Atomistic Simulation. <i>Crystals</i> , 2017 , 7, 321	2.3	54
299	Higher Order Thermo-mechanical Gradient Plasticity Model: Non-proportional Loading with Energetic and Dissipative Components 2017 , 1-48		
298	Size effects in fcc crystals during the high rate compression test. <i>Acta Materialia</i> , 2016 , 121, 190-201	8.4	43
297	Elasticity of damaged graphene: A damage mechanics approach. <i>International Journal of Damage Mechanics</i> , 2016 , 25, 1184-1213	3	8
296	Variation of the strain rate during CSM nanoindentation of glassy polymers and its implication on indentation size effect. <i>Journal of Polymer Science, Part B: Polymer Physics</i> , 2016 , 54, 2179-2187	2.6	16
295	Characterizing shear transformation zones in polycarbonate using nanoindentation. <i>Polymer</i> , 2016 , 82, 238-245	3.9	29
294	Role of grain boundary on the sources of size effects. <i>Computational Materials Science</i> , 2016 , 117, 315-329	3.2	39
293	Study of static lateral behavior of battered pile group foundation at I-10 Twin Span Bridge using three-dimensional finite element modeling. <i>Canadian Geotechnical Journal</i> , 2016 , 53, 962-973	3.2	12
292	Atomistic simulation of size effects in single-crystalline metals of confined volumes during nanoindentation. <i>Computational Materials Science</i> , 2016 , 111, 64-73	3.2	46
291	Shear Transformation Zones in Amorphous Polymers: Geometrical and Micromechanical Properties 2016 , 1-27		1
290	Size Effects During Nanoindentation: Molecular Dynamics Simulation 2016 , 1-38		
289	Size Effects and Material Length Scales in Nanoindentation for Metals 2016 , 1-36		
288	Continuous Stiffness Measurement Nanoindentation Experiments on Polymeric Glasses: Strain Rate Alteration 2016 , 1-19		

287	Nanostructural Response to Plastic Deformation in Glassy Polymers 2016 , 1-23		
286	Constitutive modeling of large inelastic deformation of amorphous polymers: Free volume and shear transformation zone dynamics. <i>Journal of Applied Physics</i> , 2016 , 119, 225104	2.5	38
285	Rate-dependent size effects and material length scales in nanoindentation near the grain boundary for a bicrystal FCC metal. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2016 , 659, 55-62	5.3	32
284	Coupled gradient damage-viscoplasticity model for ductile materials: Phase field approach. <i>International Journal of Plasticity</i> , 2016 , 83, 55-73	7.6	22
283	Investigation of the damage variable basic issues in continuum damage and healing mechanics. <i>Mechanics Research Communications</i> , 2015 , 68, 89-94	2.2	11
282	Nanoindentation Study of Yielding and Plasticity of Poly(methyl methacrylate). <i>Macromolecules</i> , 2015 , 48, 5348-5357	5.5	38
281	Phase field based nonlocal anisotropic damage mechanics model. <i>Physica D: Nonlinear Phenomena</i> , 2015 , 308, 11-25	3.3	27
280	Large scale atomistic simulation of size effects during nanoindentation: Dislocation length and hardness. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2015 , 634, 20-31	5.3	70
279	Linearized damage mechanics for states of small damage. <i>Acta Mechanica</i> , 2015 , 226, 3707-3715	2.1	
278	Complex Damage Variables in Continuum Damage Mechanics. <i>Applied Mechanics and Materials</i> , 2015 , 784, 3-10	0.3	1
277	Effects of fatigue damage and wear on fretting fatigue under partial slip condition. <i>Wear</i> , 2015 , 338-339, 394-405	3.5	30
276	The mechanical behavior during nanoindentation near the grain boundary in a bicrystal FCC metal. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2015 , 621, 218-228	5.3	49
275	Undamageable Materials and Damage Processes in Series and in Parallel 2015 , 43-74		
274	Continuum Damage-Healing Mechanics 2015 , 1515-1539		2
273	Use of Fabric Tensors in Continuum Damage Mechanics of Solids with Micro-cracks 2015 , 75-110		
272	Modeling of Nonlocal Damage Using the Phase Field Method 2015 , 1541-1576		
271	Healing, Super Healing, and Other Issues in Continuum Damage Mechanics 2015 , 1465-1491		
270	Evolution of Fabric Tensors in Continuum Damage Mechanics of Solids with Micro-cracks: Studying the Effects of Length and Orientation 2015 , 111-133		

269	Some Basic Issues of Isotropic and Anisotropic Continuum Damage Mechanics 2015 , 3-42		1
268	How a singularity forms in continuum damage mechanics. <i>Mechanics Research Communications</i> , 2014 , 55, 86-88	2.2	4
267	Use of Fabric Tensors in Continuum Damage Mechanics of Solids with Micro-cracks 2014 , 1-34		
266	Undamageable Materials and Damage Processes in Series and in Parallel 2014 , 1-29		
265	Some Basic Issues of Isotropic and Anisotropic Continuum Damage Mechanics 2014 , 1-37		3
264	Effect of boundary conditions on the MD simulation of nanoindentation. <i>Computational Materials Science</i> , 2014 , 95, 626-636	3.2	55
263	Strain gradient plasticity for amorphous and crystalline polymers with application to micro- and nano-scale deformation analysis. <i>Polymer</i> , 2014 , 55, 4182-4198	3.9	24
262	Mechanistic-Empirical analysis of the results of finite element analysis on flexible pavement with geogrid base reinforcement. <i>International Journal of Pavement Engineering</i> , 2014 , 15, 786-798	2.6	28
261	A theory for grain boundaries with strain-gradient plasticity. <i>International Journal of Solids and Structures</i> , 2014 , 51, 1872-1889	3.1	36
260	A Thermodynamic Consistent Model for Coupled Strain-Gradient Plasticity With Temperature. <i>Journal of Engineering Materials and Technology, Transactions of the ASME</i> , 2014 , 136,	1.8	11
259	Overview of Enhanced Continuum Theories for Thermal and Mechanical Responses of the Microsystems in the Fast-Transient Process. <i>Journal of Engineering Materials and Technology, Transactions of the ASME</i> , 2014 , 136,	1.8	13
258	Healing and super healing in continuum damage mechanics. <i>International Journal of Damage Mechanics</i> , 2014 , 23, 245-260	3	37
257	Evolution of Fabric Tensors in Continuum Damage Mechanics of Solids with Micro-cracks: Studying the Effects of Length and Orientation 2014 , 1-22		
256	Viscoplastic constitutive theory for brittle to ductile damage in polycrystalline materials under dynamic loading. <i>International Journal of Plasticity</i> , 2013 , 48, 125-151	7.6	53
255	On the Thermodynamics of Continuum Damage-Healing Mechanics 2013 , 1-19		
254	Healing, Super Healing, and Other Issues in Continuum Damage Mechanics 2013 , 1-24		1
253	Continuum Damage-Healing Mechanics 2013 , 1-22		
252	Localization in stainless steel using microstructural based viscoplastic model. <i>International Journal of Impact Engineering</i> , 2013 , 54, 114-129	4	12

251	Gradient plasticity for thermo-mechanical processes in metals with length and time scales. <i>Philosophical Magazine</i> , 2013 , 93, 1013-1053	1.6	20
250	Geomaterials Under Extreme Loading: The Natural Case 2013 , 1-43		
249	The Shock Properties of Concrete and Related Materials 2013 , 45-67		
248	Coupled Viscoplastic Damage Model for Hypervelocity Impact Induced Damage in Metals and Composites 2013 , 209-246		2
247	An Improved Contact Algorithm for Multi-Material Continuum Codes 2013 , 389-413		1
246	An Approach to Generate Random Localizations in Lagrangian Numerical Simulations 2013 , 311-332		1
245	X-FEM for the Simulation of Dynamic Crack Propagation 2013 , 333-349		
244	Nonlocal damage model using the phase field method: Theory and applications. <i>International Journal of Solids and Structures</i> , 2013 , 50, 3136-3151	3.1	54
243	Residual Stress Analysis of the Autofrettaged Thick-Walled Tube Using Nonlinear Kinematic Hardening. <i>Journal of Pressure Vessel Technology, Transactions of the ASME</i> , 2013 , 135,	1.2	5
242	Dynamic Localizations in HSLA-65 and DH-36 Structural Steel at Elevated Temperatures. <i>Journal of Engineering Materials and Technology, Transactions of the ASME</i> , 2013 , 135,	1.8	5
241	Cyclic Viscoplastic-Viscodamage Analysis of Shape Memory Polymers Fibers With Application to Self-Healing Smart Materials. <i>Journal of Applied Mechanics, Transactions ASME</i> , 2013 , 80,	2.7	49
240	Studying the effect of a hydrostatic stress/strain reduction factor on damage mechanics of concrete materials. <i>Journal of the Mechanical Behavior of Materials</i> , 2013 , 22, 149-159	1.9	1
239	Shakedown Analysis of Geogrid-Reinforced Granular Base Material. <i>Journal of Materials in Civil Engineering</i> , 2013 , 25, 337-346	3	19
238	On the Theory of Elastic Undamageable Materials. <i>Journal of Engineering Materials and Technology, Transactions of the ASME</i> , 2013 , 135,	1.8	11
237	A Plasticity Model for Metals With Dependency on All the Stress Invariants. <i>Journal of Engineering Materials and Technology, Transactions of the ASME</i> , 2013 , 135,	1.8	11
236	Coupled Thermomechanical Modeling of Small Volume FCC Metals. <i>Journal of Engineering Materials and Technology, Transactions of the ASME</i> , 2013 , 135,	1.8	6
235	Introduction to the mechanics and design of undamageable materials. <i>International Journal of Damage Mechanics</i> , 2013 , 22, 323-335	3	16
234	Modeling of Nonlocal Damage Using the Phase Field Method 2013 , 1-32		1

233	The Effect of Temperature on Interfacial Gradient Plasticity in Metallic Thin Films. <i>Advanced Structured Materials</i> , 2013 , 337-349	0.6	1
232	A generalized coupled viscoplastic–disco-damage–discohealing theory for glassy polymers. <i>International Journal of Plasticity</i> , 2012 , 28, 21-45	7.6	94
231	Thermo-mechanical strain gradient plasticity with energetic and dissipative length scales. <i>International Journal of Plasticity</i> , 2012 , 30-31, 218-247	7.6	60
230	Effects of stress invariants and reverse loading on ductile fracture initiation. <i>International Journal of Solids and Structures</i> , 2012 , 49, 1541-1556	3.1	11
229	Determination of nanoindentation size effects and variable material intrinsic length scale for body-centered cubic metals. <i>Mechanics of Materials</i> , 2012 , 44, 189-211	3.3	56
228	Microstructure to Macro-Scale Using Gradient Plasticity with Temperature and Rate Dependent Length Scale. <i>Procedia IUTAM</i> , 2012 , 3, 205-227		12
227	Continuum Damage-Healing Mechanics with Introduction to New Healing Variables. <i>International Journal of Damage Mechanics</i> , 2012 , 21, 391-414	3	88
226	Thermal and Mechanical Responses of BCC Metals to the Fast-Transient Process in Small Volumes. <i>Journal of Nanomechanics & Micromechanics</i> , 2012 , 2, 29-41		4
225	Residual stress analyses of re-autofrettaged thick-walled tubes. <i>International Journal of Pressure Vessels and Piping</i> , 2012 , 98, 57-64	2.4	8
224	Mechanics of damage processes in series and in parallel: a conceptual framework. <i>Acta Mechanica</i> , 2012 , 223, 1863-1878	2.1	41
223	A New Class of Damage Variables in Continuum Damage Mechanics. <i>Journal of Engineering Materials and Technology, Transactions of the ASME</i> , 2012 , 134,	1.8	12
222	Analysis of Shear Flexible Layered Isotropic and Composite Shells by Ψ PSA. <i>Shock and Vibration</i> , 2012 , 19, 459-475	1.1	5
221	Analytical solution for shear bands in cold-rolled 1018 steel. <i>Journal of the Mechanical Behavior of Materials</i> , 2012 , 20, 89-102	1.9	1
220	New Tensors for Anisotropic Damage in Continuum Damage Mechanics. <i>Journal of Engineering Materials and Technology, Transactions of the ASME</i> , 2012 , 134,	1.8	21
219	Evaluation of Factors Affecting the Performance of Geogrid-Reinforced Granular Base Material Using Repeated Load Triaxial Tests. <i>Journal of Materials in Civil Engineering</i> , 2012 , 24, 72-83	3	30
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